IN THE CLAIMS:

Summary of Current Claim Amendments:

Please cancel Claims 17, and 42-47, without prejudice to or disclaimer of the subject matter therein.

Please amend Claims 1 and 12 as follows, without prejudice to or disclaimer of the subject matter therein.

Listing of Claims:

- 1. (Currently Amended) A chimeric fibroblast growth factor-2 (FGF-2), comprising:
 - a) a biologically active fibroblast growth factor-2 (FGF-2) protein having a first amino acid sequence that is encoded by a nucleic acid sequence that is at least about 70% 90% identical to a nucleic acid sequence encoding a fibroblast growth factor-2 (FGF-2) protein represented by SEQ ID NO:5 or SEQ ID NO:6, wherein the FGF-2 protein has an FGF-2 biological activity selected from the group consisting of: promotion of cell proliferation, repression of terminal differentiation in a cell, promotion of angiogenesis, promotion of wound healing, promotion of osteogenesis, and promotion of nerve outgrowth; and,
 - b) a penetratin peptide having a second amino acid sequence, wherein the penetratin peptide is selected from the group consisting of:
 - i) a first peptide comprising an amino acid sequence selected from the group consisting of:

1)
$$X_1 - X_2 - X_3 - X_4 - X_5 - X_6 - X_7 - X_8 - X_9 - X_{10} - X_{11} - X_{12} - X_{13} - X_{14} - X_{15} - X_{16}; and,$$

2)
$$X_{16}-X_{15}-X_{14}-X_{13}-X_{12}-X_{11}-X_{10}-X_{9}-X_{8}-X_{7}-X_{6}-X_{5}-X_{4}-X_{3}-X_{2}-X_{1}$$
;

wherein X_1 , X_2 , X_3 , X_4 , X_5 , X_7 , X_8 , X_9 , X_{10} , X_{11} , X_{12} , X_{13} , X_{14} , X_{15} , and X_{16} each represent an α -amino acid, between 6 and 10 of which are hydrophobic amino acids; and wherein X_6 represents Trp; and,

ii) a second peptide comprising amino acid residues 49-57 of HIV Tat protein (SEQ ID NO:17),

wherein the biological activity of said penetratin peptide is to transport said chimeric fibroblast growth factor-2 (FGF-2) across a lipid bilayer of a cell independently of the presence of an FGF-2 receptor;

wherein said second amino acid sequence is linked to said first amino acid sequence; and

wherein said chimeric fibroblast growth factor-2 (FGF-2) is characterized by:

- i) said FGF-2 biological activity of (a) in the absence of heparan sulfate; and,
- ii) entry into a living cell in the absence of a receptor that binds to FGF-2.
- 2. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said chimeric FGF-2 has biological activity that is characterized by:
 - a) repression of terminal differentiation in the absence of heparan sulfate; and,
 - b) promotion of cell proliferation in the absence of heparan sulfate.
- 3. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said second amino acid sequence is linked to the N-terminus of said first amino acid sequence.
 - 4-5. (Cancelled)
- 6. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first amino acid sequence is selected from the group consisting of SEQ ID NO:5 and SEQ ID NO:6.
 - 7. (Cancelled)
- 8. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said FGF-2 protein has an amino acid sequence comprising from position 18 through position 172 of SEQ ID NO:2 or from position 17 through 171 of SEQ ID NO:4.
 - 9. (Cancelled)

- 10. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said second peptide does not comprise amino acid residues 22-36 or 73-86 of HIV Tat protein (SEQ ID NO:17).
- 11. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first peptide is selected from the group consisting of a peptide comprising helix 3 of a homeobox domain and a homeobox domain.
- 12. (Currently Amended) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:9, amino acid residues 42 through 58 of SEQ ID NO:9, amino acid residues 43 through 59 of SEQ ID NO:9, amino acid residues 43 through 58 of SEQ ID NO:9, amino acid residues 58 through 43 of SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, and SEQ ID NO:16.
- 13. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first peptide comprises amino acid residues 2-17 of SEQ ID NO:2.
- 14. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said second peptide comprises an amino acid sequence from an HIV Tat protein selected from the group consisting of amino acid residues 37-72 of SEQ ID NO:17, amino acid residues 38-72 of SEQ ID NO:17, amino acid residues 37-58 of SEQ ID NO:17, amino acid residues 38-58 of SEQ ID NO:17, amino acid residues 47-58 of SEQ ID NO:17, amino acid residues 1-21 and 38-72 of SEQ ID NO:17, amino acid residues 47-62 of SEQ ID NO:17, amino acid residues 38-62 of SEQ ID NO:17, amino acid residues 1-58 of SEQ ID NO:17, amino acid re
- 15. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said second peptide comprises amino acid residues 48-60 of SEQ ID NO:17 or amino acid residues 2-14 of SEQ ID NO:4.
- 16. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said chimeric fibroblast growth factor-2 (FGF-2) comprises an amino acid

sequence selected from the group consisting of SEQ ID NO:2 (HLX-FGF) and SEQ ID NO:4 (TAT-FGF).

- 17. (Cancelled)
- 18. (Previously Presented) A therapeutic composition comprising the chimeric fibroblast growth factor-2 (FGF-2) of Claim 1 and a pharmaceutically acceptable excipient.

19-37. (Cancelled)

- 38. (Previously Presented) A method to repress terminal differentiation and promote proliferation in a cell, comprising administering to a cell a chimeric fibroblast growth factor-2 (FGF-2) according to Claim 1.
- 39. (Previously Presented) The method of Claim 38, wherein said cell has reduced heparan sulfate proteoglycan production characterized by a reduction in both repression of terminal differentiation and promotion of proliferation in the presence of naturally occurring fibroblast growth factor.
- 40. (Previously Presented) The method of Claim 38, wherein said cell is a cell of patient that has a condition selected from the group consisting of stroke, nerve damage, bone damage, muscle damage, and a wound.
- 41. (Previously Presented) The method of Claim 38, wherein said chimeric fibroblast growth factor (FGF) is administered to said cell *in vivo*.

42-47. (Cancelled)

- 48. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first amino acid sequence is SEQ ID NO:5.
- 49. (Previously Presented) The chimeric fibroblast growth factor-2 (FGF-2) of Claim 1, wherein said first amino acid sequence is SEQ ID NO:6.